

What Is Claimed Is:

1. A fuel cutoff valve that is attached to an upper wall of a fuel tank, and works by a liquid level in the fuel tank, the fuel cutoff valve comprising:

5 a casing including (i) a casing main body having a valve chamber connected to the fuel tank, (ii) an external conduit located outside the fuel tank, and (iii) a first connection conduit formed in an upper portion of the casing main body to connect the external conduit with the valve chamber,

10 a first float including (i) a float main body accommodated in the valve chamber, being capable of moving up and down, the float main body having (i-a) a bottom-open storage chamber, and (i-b) a second connection conduit to connect the first connection conduit and the storage chamber, an area of the second connection conduit being smaller than that of the first connection conduit, and (iii) a buoyancy body coupled with the float main body and making a resulting specific gravity of the buoyancy body and the float main 15 body smaller than a specific gravity of a fuel;

a second float accommodated in the storage chamber, being capable of moving up and down according the liquid level in the fuel tank to open and close the second connection conduit, a specific gravity of the second float being greater than that of the fuel, and;

20 a spring for pressing the second float toward the second connection conduit,

wherein the first float is constructed to move up by buoyancy and thereby close the first connection conduit when the liquid lever exceeds a first liquid level, and

25 the second float is constructed to move up by buoyancy and a pressing force of the spring and thereby close the second connection conduit when the

liquid level exceeds a second liquid level higher than the first liquid level, and to move down to open the second connection conduit when the level drops below the second liquid level but is still above the first liquid level.

5 2. The fuel cutoff valve in accordance with claim 1, wherein the buoyancy body includes a closed-cell foamed member made of a resin material with great fuel resistance.

10 3. The fuel cutoff valve in accordance with claim 2, wherein the resin material of the buoyancy body is butadiene acrylonitrile copolymer.

15 4. The fuel cutoff valve in accordance with claim 3, wherein the float main body and the second float are made of polyacetal.

20 5. The fuel cutoff valve in accordance with claim 4, wherein the float main body and the second float have a specific gravity of 1.2 to 1.4, and the buoyancy body has a specific gravity of 0.2 to 0.5, a total specific gravity of the float main body and the buoyancy body being in a range of 0.5 to 0.7.

25 6. The fuel cutoff valve in accordance with claim 1, wherein the float main body and the second float have a specific gravity of 1.2 to 1.4, and the buoyancy body has a specific gravity of 0.2 to 0.5, a total specific gravity of the float main body and the buoyancy body being in a range of 0.5 to 0.7.

25 7. The fuel cutoff valve in accordance with claim 1, wherein the buoyancy body includes a ring-shaped body surrounding an outer

circumference of the float main body, the ring-shaped body attached to the float main body via an attachment mechanism.

8. The fuel cutoff valve in accordance with claim 7, wherein the
5 attachment mechanism includes a attachment hole formed on a side wall of the float main body and an attachment projection formed on an inner wall of the ring-shaped body, the attachment projection engaging with the attachment hole.

10 9. The fuel cutoff valve in accordance with claim 8, wherein attachment mechanism is configured such that the buoyancy body is attached changeably to a lower portion of the float main body along a vertical axis of the float main body.

15 10. The fuel cutoff valve in accordance with claim 1, wherein the buoyancy body is a hollow member.

11. The fuel cutoff valve in accordance with claim 1, wherein the
20 buoyancy body is made of a resin material different from that of the float main body, and formed integrally with the float main body.

12. The fuel cutoff valve in accordance with claim 1, wherein the
25 casing main body includes a cylindrical side wall forming the valve chamber and a connection hole formed in the side wall and connecting the fuel tank and the valve chamber, the connection hole being constructed to be located above an top surface of the first float set in a lower position.